ENGMEDNEWS

Newsletter of Biomedical Engineering Society of India

Aug-Sep-2022 Volume 03/22 https://www.bmesi.org.in/

Contents

"Greetings from Biomedical Engineering Society of India"

Enjoy reading....

PhD Thesis (July-August)

Dr. S. Logesh Kumar M.Tech, Ph.D.,
Assistant Professor (Sl. Grade),
Department of Biomedical Engineering,
KPR Institute of Engineering and Technology,
Coimbatore 641407.
Mobile: +91-9994463277
Email: logesh20feb@gmail.com

Thesis Title:

Fabrication of keratin based hybrid protein biofilm for skin tissue regenerative applications

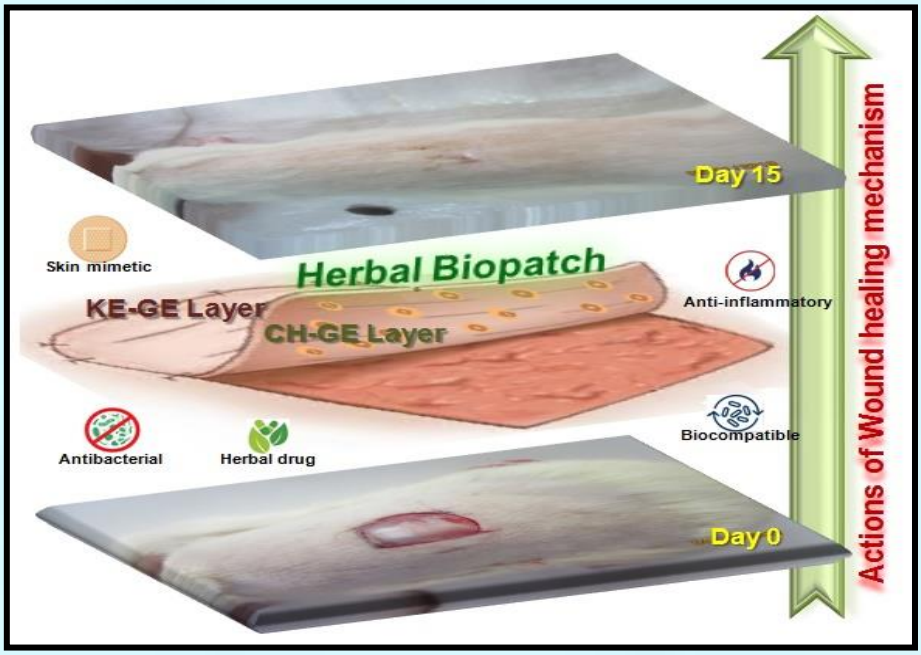
Name of the University & Ph.D. Viva date: Anna University, Chennai & 04-04-2022

Name of the Supervisor:

Dr. S. Anandhavelu Ph.D., PDF (Israel).,
Assistant Professor, Department of Applied Chemistry,
Sri Venkateswara College of Engineering,
Sriperumbudur, Chennai, Tamil Nadu.

Research Summary:

The aim of this study is to reconstruct and repair the functions of biological tissues with the help of natural biopolymers and bioactive drugs. Most of the biopolymers are made up of proteins, polysaccharides and polynucleotides which possess important biological factors such as physiochemical properties, mechanical properties and biocompatibility with the cell lines. The biopolymer from biological waste serves as functional biomaterials to mimic the extracellular matrix of skin and is also used in different clinical applications. Keratin biopolymer is one of the most abundant fibrous proteins composed of cysteine and disulfide bonds, which help to restore extracellular matrix of damaged tissues. The goat hoof contains a good source of keratin and mostly decomposed as solid biowaste from slaughter house. The ultimate objective of the present work is to extract the goat hoof keratin and to fabricate hybridized protein biofilms encapsulated with natural drug as wound dressings for skin-tissue regenerative applications. To the fabricated biofilms, a simple cost-effective approach such as solvent casting and electrospraying methods were adopted to convert the biological waste material into a value-added wound dressing material.



Journal Publications:

1. Logeshkumar, S., Anandhavelu, S., Doble, M., Perumal, G., Jeon, J.H., Vikraman, D. and Kim, H.S., 2022. Biopolymer film fabrication for skin mimetic tissue regenerative wound dressing applications. *International Journal of Polymeric Materials and Polymeric Biomaterials*, 71(3), pp.196-207. (Impact Factor: 3.22)
2. Logeshkumar, **S**., Sanmugam, A. and Manoharan, S., 2021. Fabrication of dual layered biocompatible herbal biopatch from biological waste for skin-tissue regenerative applications. *International Journal of Biological Macromolecules*, 183, pp.1106-1118. (Impact Factor: 8.03)
3. Logeshkumar, **S.**, Anandhavelu, S. and Swathy, M., 2019. Preparation and characterization of goat hoof keratin/gelatin/sodium alginate base biofilm for tissue engineering application. *Integrated Ferroelectrics*, 202(1), pp.1-12. (Impact Factor:0.886)
4. Logeshkumar, S., Anandhavelu, S., Sivaraman, J. and Swathy, M., 2017. Modified extraction and characterization of keratin from Indian goat hoof: A biocompatible biomaterial for tissue regenerative applications. *Integrated Ferroelectrics*, 184(1), pp.41-49. (Impact Factor:0.886)

Conference Publications:

1. Logeshkumar, S & Anandhavelu, S, 2020, 'Fabrication and characterization of goat hoof keratin/gelatin impregnated with chamomile flower extract for wounded tissue regenerative applications' 11th World Biomaterials Congress (WBC 2020), Glasgow, Scotland.
2. Logesh Kumar. S, Anandhavelu. S & Swathy. M, Biodegradable keratin-alginate based polymeric biofilm for tissue regenerative application. International Conference on Nano-Structured Materials and Devices (ICNSMD) Delhi University & Society for Technologically Advanced Material of India (STAMI), New Delhi, 2018.

3. Logesh Kumar. S, Anandhavelu. S, Sivaraman. J, Development and characterization of keratin based biofilm from bovine hoof waste for tissue engineering application. TERMIS-AM Annual Conference and Exhibition. (TERMIS Society) San Diego, California, USA, 2016.

Grants & Awards:

1. International Travel Grant from All India Council for Technical Education (AICTE), Govt of India, INR 1,42,333 to attend 11th World Biomaterials Congress (WBC2020), Glasgow, Scotland-Oral Presentation (2020)
2. Best Paper Award, National Science Foundation (NSF) Awards (A National Award), Coimbatore, India (2018).
3. International Travel Grant from Department of Biotechnology (DBT), Govt of India, INR 1,15,838 to attend Tissue Engineering and Regenerative Medicine International Society-Annual Meeting (TERMIS-AM), San Diego, California, USA-iPoster Presentation (2016).

EVENTS HELD AT DIFFERENT COLLEGES

MAHENDRA COLLEGE OF ENGINEERING,

Salem Campus, Minnampalli, Salem-636106

Department of Biomedical Engineering

In association with

Biomedical Engineering Society of India (BMESI)

Symposium on B'Yond 2022

Date: 20.05.2022

Department of Biomedical Engineering, at Mahendra College of Engineering, Salem Campus, Minnampalli, Salem in association with Biomedical Engineering Society of India (BMESI) organized symposium. Around 100 students and faculty members from Mahendra College of Engineering and Participants from other colleges participated in this event.

Inauguration:

The inauguration started at 09.45 AM on 20.05.2022 at Seminar Hall, MCE.

The event started with prayer song in the presence of Chief Guest, Dean Academics, and Heads of various Departments, Faculties and students of Biomedical Engineering and participants from various polytechnic colleges.

Lightening Kuthuvilakku:

The auspicious start of the day was begun by the traditional lighting of the lamp.

The welcome address:

The welcome address was given by Dr. S. Rajalaxmi Head of the Department, Biomedical Engineering. She delivered the welcome address by welcoming the chief guest Prof. K.K.Selvam, Head/Student Affairs, Mahendra Educational Institutions, Salem and Namakkal. She also welcomed Dr. N. Mohanasundararaju, Dean–Academics and HoDs, faculty members and students from various departments and the participants from various polytechnic colleges.

Felicitation:

Dr. N. Mohanasundararaju, Dean–Academics felicitated the gathering with warm welcoming and also he emphasized a note on the importance of Engineers in the Society.

Introduction to the Chief Guest:

Ms. S. Thamilarasi, Third year of Biomedical Engineering introduced the chief guests of the day guest Prof. K.K.Selvam, Head/Student Affairs Mahendra Educational Institutions, Salem and Namakkal.

Honoring the Chief Guest:

As a token of gratitude Dr. N. Mohanasundararaju, Dean–Academics and Dr.S.Rajalaxmi HoD/Biomedical Department, Mahendra College Engineering presented a memento to the chief guest.

Keynote Address:

The Chief Guest emphasized the importance of Engineering and the role of Biomedical Engineers throughout the world. The participants were impressed by his enlightened speech.

Invited Talk:

Invited talks were given by Mrs. Yamini Baskar, Product cum Program Manager, One Valley, Nanyang Technological University, San Fransisco and Ms. Kiruthiga Ramakrishnan, Biomedical Engineer, 12-15 Molecular Diagnostics LLC., University of New Haven, United States. They shared their experience with the students. The audience were so much excited about their experiences as Biomedical Engineers.

Alumni talks were given by Ms. D. Shreeja (Batch: 2017-2021), Graduate Engineer trainee (Regulatory & Testing), Phoenix Medical System Pvt. Ltd., and Mr.J.Arunsingh (Batch: 2015-2019), Field Clinical Engineer, Abbott. They shared their point of view about the Department of Biomedical Engineering in Mahendra College of Engineering and expressed their gratitude towards the college through which they learned and excelled in various aspects.

After this session, Mr.S.Vinoth Assistant Professor, Department of Biomedical Engineering emphasized the various opportunities in the field of Biomedical Engineering.

Events:

Various activities were conducted in the forenoon and afternoon sessions. The events like Roadies, Balloon Fun and Just imagine were organized in such a way that, it were fun filled for the participants and they showed their participation eagerly. They showed their talents in the symposium.

Certificate Distribution:

Certificates were distributed to all the participants and the prizes were distributed to winners of various events.

Department of Biomedical Engineering
KPR Institute of Engineering and Technology

KPRIET
Learn Beyond

25.03.2022

One-Day National Level Technical Symposium

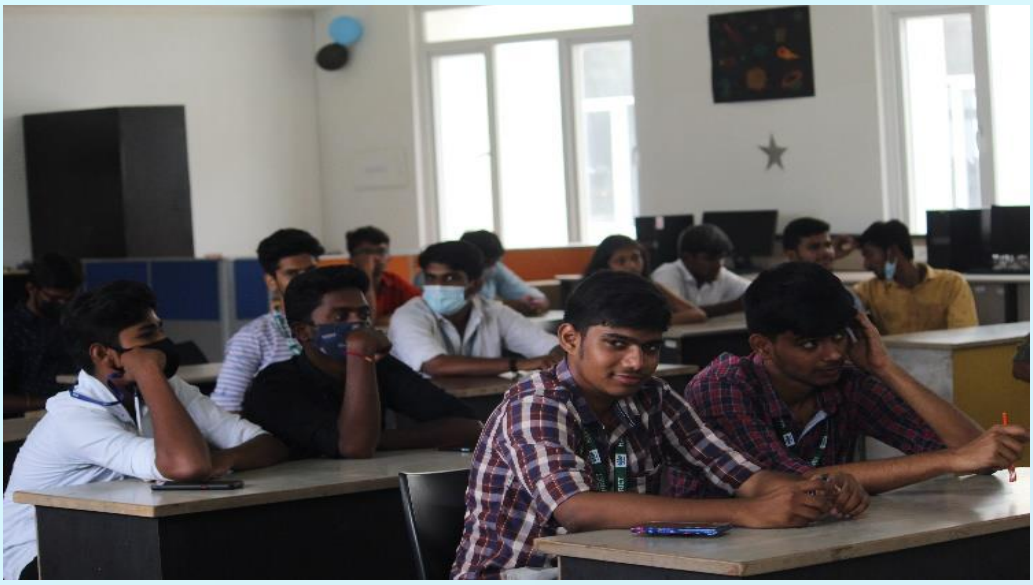
IGNUZ' 22

The Department of Biomedical Engineering conducted One day National Level Technical Symposium – IGNUZ'22 on 25th March, 2022 (Friday). The event was sponsored by the Biomedical Engineering Society of India (BMESI), Medsby Healthcare and Engineering Solutions, Coimbatore and Prashann Medical Technologies, Coimbatore.

The session started with the presidential address by the beloved principal of KPRIET – Dr. M.Akila. The welcome address was given by Dr. D. Ganeshkumar, Head of the Department. There were 307 participants for this event from various institutions. The guest of honour for the inaugural function was Mr. Guruprasath, Founder and CEO, Medsby Healthcare and Engineering Solutions, Coimbatore. He addressed the gathering about the various projects that are ongoing in the healthcare industry.

The following technical and Non-technical events were conducted in a series.

- Script Conjura – Paper Presentation
- Dexter's Laboratory – Exhibit your expertise with machines
- Mr. & Ms. Medico Sapiens – Technical Quiz
- Free style Dancing
- Free style Singing
- Secret of Chambhers – Treasure Hunt



The valedictory function of IGNUZ'22 started by 3.15 PM at Raagam Hall. Mr. Rajesh Dhamodharasamy, Senior Program Manager, Philips, Washington, USA was the guest of honour. He addressed the gathering with his knowledge gained during his service in the field of medical prosthetic designing. The winners of various contests were announced and rewarded during this session.

REPORT on

International conference on Biomedical Engineering and Computing Technologies"

21st -25th, March 2022
Organised by

Department of Biomedical Engineering
School of Bio-Engineering
Faculty of Engineering and Technology
SRM Institute of Science and Technology

Co-Sponsored by

Convenor

Dr.U.Snekhalatha
Associate Professor
SRM Institute of Science and Technology
SRM Nagar, Kattankulathur - 603 203
Mobile: 7401109396
Email: snehalau@srmist.edu in
lakshmip1@srmist.edu.in

Co-convenor

Dr. Vani Damodaran/ Mrs.Lakshmi Prabha
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Email: vanid@srmist.edu.in/

About the Conference

All efforts and innovation in the field of medicine aims at improving clinical outcomes, patient care, precise diagnosis and improved therapy. Importance to affordability, accessibility and ease of use are of priority to tackle the evolving global challenges. With increasing health problems and diagnosis, large data is available for analysis. The need for intelligent systems to handle, sort, analyze, predict the condition and suggest an appropriate treatment plan is on the rise. This

emerging field is a result of contribution from various technologies pertaining to image processing, signal processing, computer vision, machine learning, deep learning, IoT, etc. Bringing together academicians and industry personnel working on these aspects and to find ways of improving the existing techniques is very important to leverage its potential. With this as the focus, the 1st International Conference on Biomedical Engineering and Computing Technologies is being organized virtually with a theme of "Machine Learning in Medical Imaging and Signal Processing". This conference aims at bringing together experts to showcase their contribution and opportunities for evolution in the research work for improved outcomes.

Resource Person

Dr. Michael Condry is Chief Executive Officer at Condry Investment and Future Technology Consulting, San Jose, CA. His specialties are Telecommunications, networking, processor architecture, systems architecture, technology evolution, security, technical management. Currently he is investigating the most humanitarian way to utilize data from consumer Digital Health devices to provide international value and control over medical conditions and even pandemics.

Talk title: Opportunities arising from consumer-based digital health technologies

Dr. Chandra Mohan is Hugh Roy and Lillie Cranz Cullen Endowed Professor in Department of Biomedical Engineering, University of Houston. Following his medical training in Pathology and Rheumatology at the National University of Singapore and the Singapore General Hospital in Singapore, Dr. Mohan undertook his doctoral thesis work focusing on the cellular immunology of lupus at Tufts University, Boston. His post-doctoral training focused on the genetic analysis of murine lupus. As an independent investigator, his laboratory's research efforts have concentrated on elucidating the cellular, molecular, and genetic players leading to murine lupus nephritis, with corresponding translational studies in human lupus nephritis. Dr. Mohan's ongoing studies are aimed at tapping leads from proteomic platforms to mine new biomarkers and targets in chronic rheumatic diseases and selected cancers, and to apply the latest bioengineering technologies to advance the management of these ailments.

Talk Title: Proteomics – The Key To Novel Biomarkers & Drug Targets

Mr. Veerendra Shetty is currently the Head of Research and Product Development Group in SAMSUNG Research, Bangalore responsible for Digital & AI Technology for Healthcare & Smart Phone Imaging. Prior to this in SIEMENS Healthcare, he has held global R&D leadership positions in Germany, USA and India. His R&D Leadership resulted in global 6 Mega Health Platform Products, 100+ Advanced Tech Solutions, 15+ AI Solutions in Medical Device Imaging, Health Imaging IT, Smart Phone Imaging & Digital Technology, 30+ Patents and 30+ Tech Research Papers as outcome of his R&D teams through his Innovation Leadership. Through his People Leadership capability he coached & mentored 50+ Domain Leaders/Experts & 500+ Engineers. Beyond corporate responsibility, he actively collaborates with Clinical Experts for Clinical Research, Tech Startup Mentorship and Academic

Engagement with students and professors to proliferate learning, application & development of advanced technology.

Talk Title: Transforming Digital Health Innovation & Technology to Meaningful End User Products & Solutions

Prof.Ricardo Vardasca is a Professor Coordenador (Full Professor) at ISLA Santarém Lisbon Metropolitan Area, Portugal. He has a PhD degree in Computer Science from U. South Wales (UK) and a degree in Computer Science Engineering from IPLeiria. He currently is a Coordinator Professor at ISLA Santarem, External Professor at the U. Valencia (Spain), Visiting Research at U. South Wales (UK) and integrated member of the Biomechanics group at LAETA. His current interests are biomedical IRT applications, image processing, data analysis and machine learning.

Talk title: Pandemic fever screening with infrared thermal imaging and machine learning

Dr.Srivathsan Vasudevan currently working as a Associate Professor in the department of Electrical Engineering department, IIT, Indore. His area of interest includes Photoacoustic imaging and Non destructive testing. Srivathsan Vasudevan received his Bachelor of Engineering (B.E) in Electrical & Electronic Engineering from Anna University, Chennai, India. After a short stint at Cognizant Technology solutions, he moved over to Nanyang Technological University, Singapore to pursue Ph.D. He received his Ph.D degree in Electrical Engineering (Specialization:- Biophotonics in the division of Microelectronics) in 2011. During his Ph.D he developed a photothermal imaging / response system which is a microscopy technique that can be used for bio-diagnostics. He utilized the system developed for diagnostics / analysis of apoptosis of red blood cells or popularly known as eryptosis. He was also working as a Project Officer in the same University from 2010-2011. In 2011, he moved over to Singapore General Hospital as a Research Associate where he was working with a team of doctors and clinical scientists in the area of prostate cancer research.

Talk title: From Experimentation to instrumentation: Applications in Biomedical Engineering

Dr.Ganapathy Krishnamurthi presently works as an Associate Professor, in the department of Engineering design in IIT, Madras. He currently involved in developing multi-modal, pre-clinical imaging systems, and software for medical image analysis. He has published 48 research articles in reputed peer reviewed journal and conference Proceedings. In close collaboration with Radiologists, His team developed methods an automated analysis of medical images towards obtaining useful diagnostic and prognostic information. He validated these methods on publicly available databases as well as using data from our radiologist collaborators. Their team also developed low-cost pre-clinical imaging systems for enabling in-vivo imaging of rodent disease models. His focus on developing low cost in-vivo fluorescence imaging systems as well as x-ray micro-CT systems.

Talk title: Deep Learning in Medical Image Analysis

Dr.N Sriraam received the B.E. degree in Electronics and Communication engineering(ECE) from the National Engineering College ,Tamil Nadu, India ,in 1996,the M.Tech degree(with distinction)in Biomedical Engineering from Manipal Institute of Technology(MIT),Manipal, India, in 2000,and the Ph.D. degree in Information Technology from the Multimedia University

,Cyberjaya, Malaysia, in the area of biomedical signal processing, in 2007. He is currently working as Professor, Department of Medical Electronics, Head-R&D, Ramaiah Institute of Technology, Bangalore, India. He is the author or coauthor of 150 articles published in journals and has been involved in several sponsored research projects. His current research interests include biomedical signal processing, data mining, neural networks. He is the editor –in-chief of: International Journal of Biomedical and Clinical Engineering (IJBCE) and also reviewing panel member for Journals such as IEEE Transactions on Signal Processing Communications, IEEE Electronics letters, Elsevier publications such as Digital Signal Processing, Computers in Biology and Medicine, Expert Systems, Medical Informatics, Neurocomputing, Journal of Medical Systems. Dr. Sriraam is Senior Member of IEEE and IEEE Engineering in Medicine and Biology Society (EMBS), Signal Processing Society, life member of telemedicine Society of India and member of medical computer society of India.

Talk title: Cognitive Neuroscience: Its new Dimension and Scope of Computational Modeling for Healthcare Solutions

Dr. Kuldeep Singh is Assistant Professor, Malaviya National Institute of Technology, Jaipur. He is also the Faculty In-Charge for Training & Placements. Experienced Scientist skilled in Artificial Intelligence, Deep Learning, Machine Learning, Computer vision, Image Processing. Strong research professional with a Doctor of Philosophy (PhD) focused in Computer Vision, Machine Learning from Delhi Technological University (Formerly DCE) and postdoc from University of Alberta, Canada.

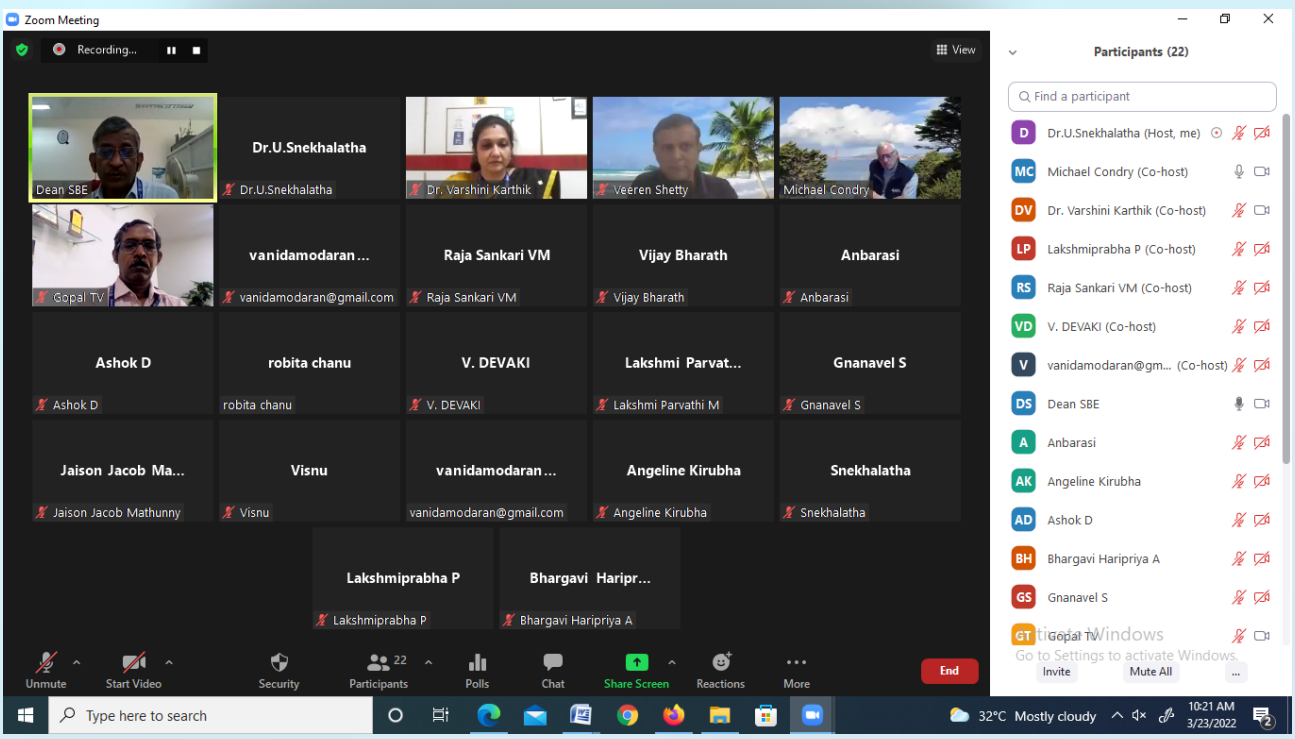
Talk title: Machine learning and deep learning techniques in Medical imaging applications

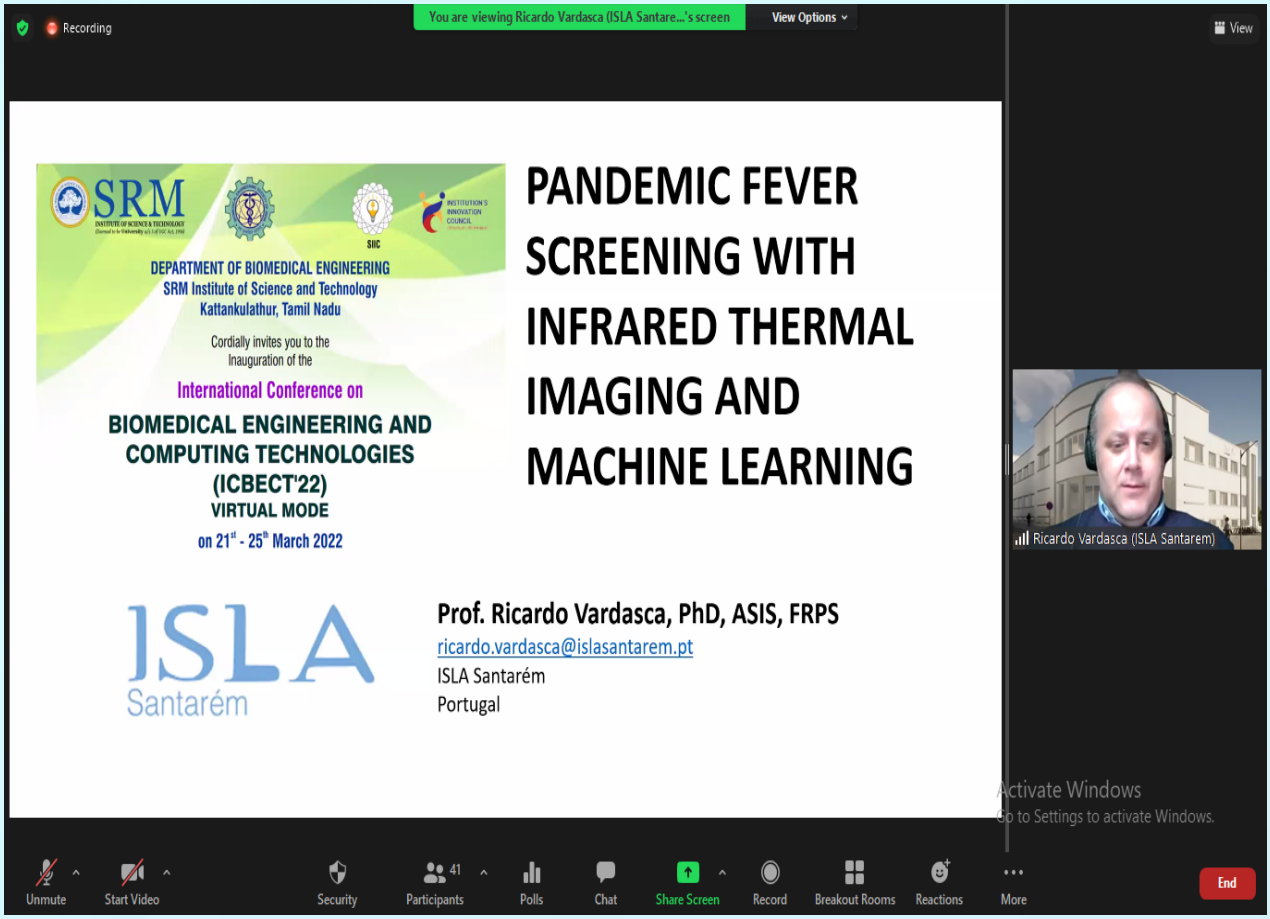
Dr. Karthik Seemakurthy is a Postdoctoral Scholar at University of Lincoln, United Kingdom. He is passionate about teaching and doing social service. His objective in life is to support at least 1000 poor students for their education. He would like to become an entrepreneur and is highly fascinated by state-of-the-art technology. He regularly follows famous blogs on MIT news, deep learning, and many more. He always likes to interact with young ambitious minds. He has delivered many guest lectures and keynote talks in national-level conferences and symposiums.

Talk title: Deep Learning for Surgical Video Desmoking.

Dr. Vicky Varghese is a Postdoctoral Scholar at Medical College of Wisconsin Milwaukee, Wisconsin, United States. He is working in the field of spine and orthopedic biomechanics, implant designing, and testing, design of experiments, machine learning for clinical applications, and instrument development for sports physiotherapy. He worked with the Indian Spinal injury

center as a biomedical engineer also has experience as a lecturer and taught subjects like non-conventional sources of energy, process plant safety, and operations, downstream processing.

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Cordially invites you to the
Inauguration of the
International Conference on
BIOMEDICAL ENGINEERING AND COMPUTING TECHNOLOGIES (ICBECT'22)
VIRTUAL MODE
on 21st - 25th March 2022
PANDEMIC FEVER SCREENING WITH INFRARED THERMAL IMAGING AND MACHINE LEARNING
ISLA Santarém
Prof. Ricardo Vardasca, PhD, ASIS, FRPS
ricardo.vardasca@islasantarem.pt
ISLA Santarém
Portugal
Ricardo Vardasca (ISLA Santarem)
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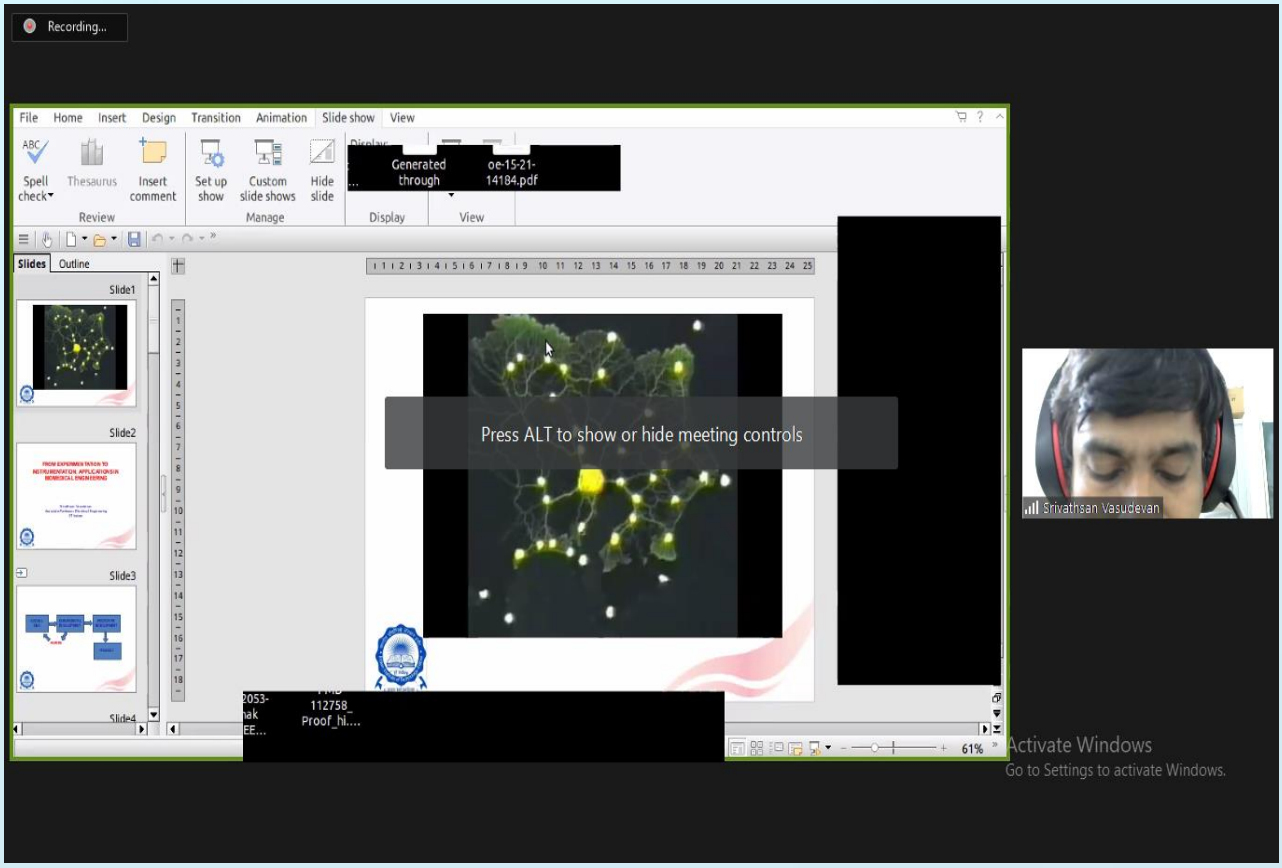
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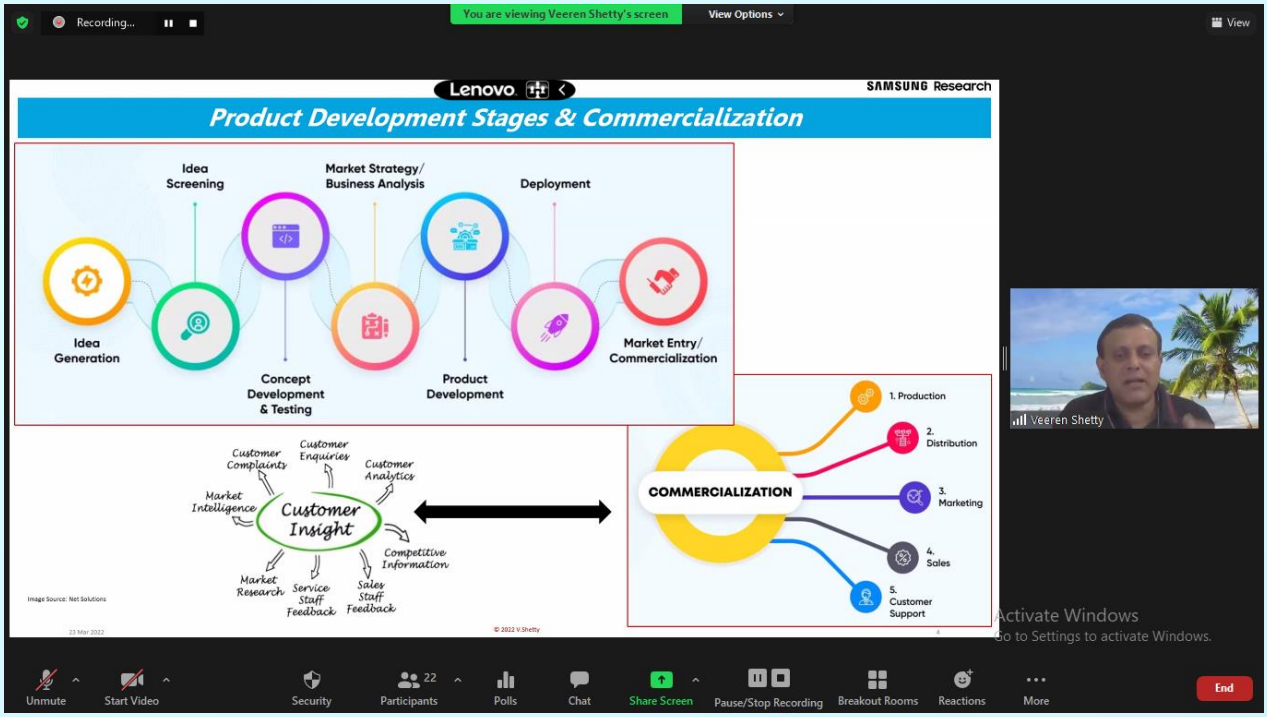
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Michael W. Condry, PhD
IEEE Life Fellow
IEEE Technology and Engineering Management Society, President 2016-2019
Senior AdCom, IEEE Industry Electronics Society
Member: Computer Society, Consumer Electronics, and Engineering in Medicine and Biology Society, CNSV
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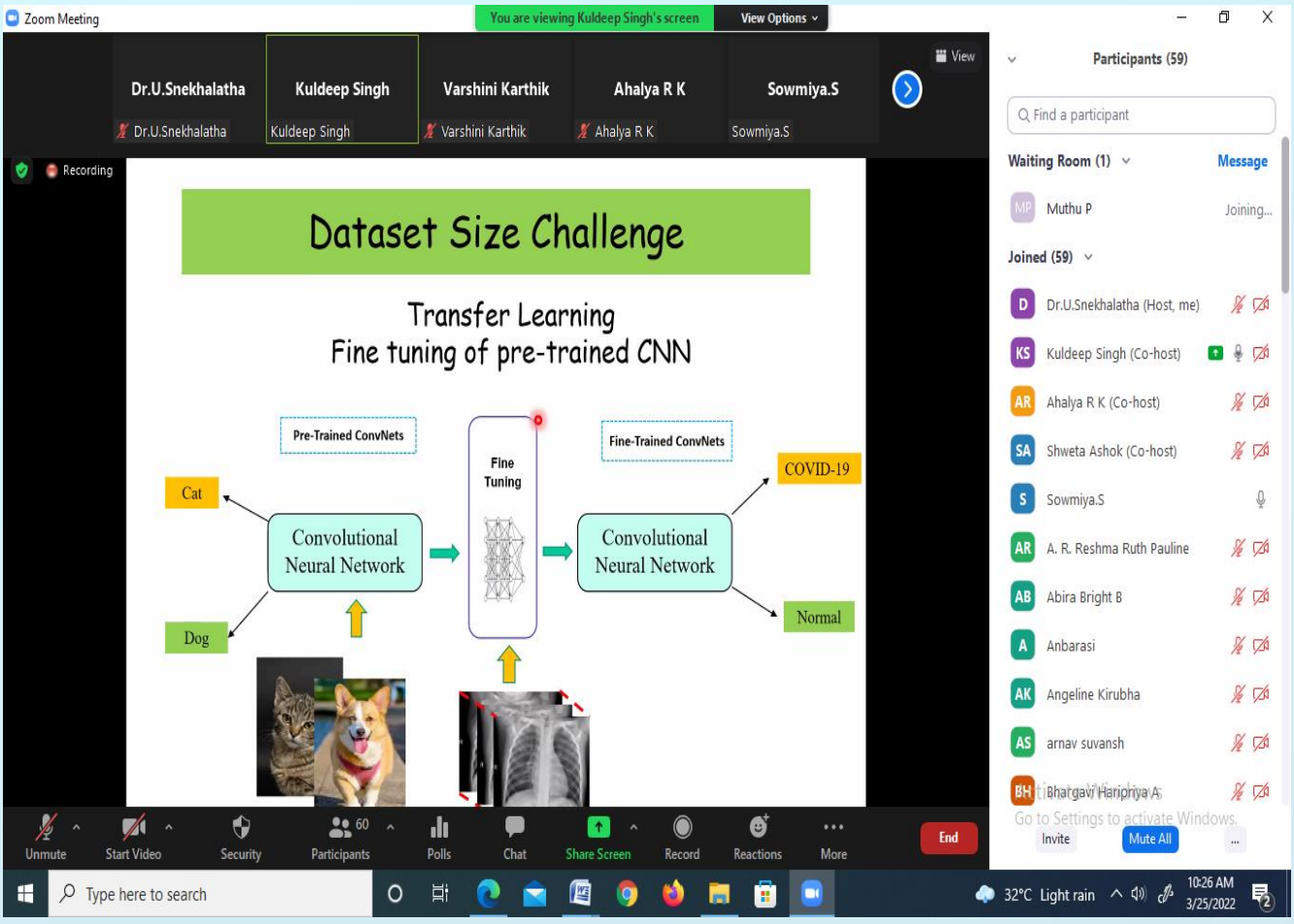
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Dr.U.Snekhalatha (Host, me)
Kuldeep Singh (Co-host)
Ahalya R K (Co-host)
Shweta Ashok (Co-host)
Sowmiya.S
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Abira Bright B
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3/25/2022

DEPARTMENT OF BIOMEDICAL ENGINEERING

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(AUTONOMOUS)

Dr . M. G. R. Nagar, Hosur-635130

4th NATIONAL CONFERENCE ON "EMERGING TRENDS AND CHALLENGES IN BIOMEDICAL ENGINEERING (NCETCBE 2K22)"

National Conference is celebrated annually on every even semester and is associated with Biomedical Engineering Society of India. The BMESI organize symposium, Workshops, Conference, Invited-lectures, Study programs, etc. The objective of BMESI is to promote advance interdisciplinary co-operation amongst scientists, engineers and recognized nationally as a high-quality, research-driven biomed. The conference was held on 24th and 25th May 2022. Mr. A. LAKSHMI NARAYANAN Examiner of Patent and Designs officer (Group 'A' Gazette) Intellectual property officer , Govt of India . During his speech he clearly listed out the important aspects in the field of Biomedical Engineering and other sub fields further he spoke about patent filing of projects and its need.

Mr. HARIRAMAN JEYAPRAKASH Territory Manager, Fisher & Paykel Healthcare. He gave a presentation about ventilator and its usage and also he clearly specified the use of different types of machineries in health sector.

Dr . B. BALASUBRAMANIAN Professor & Head of the Department of Biomedical Engineering, Excel Engineering College , Vice President BMESI he gave a well-defined lecture about the past and the future scope of medical engineering and also he showed us the relationship between intelligence and augmentation in healthcare domain .These honourable people were graciously consented to be the Chief Guests. Dr . G. RANGANATH, Principal, Adhiyamaan College of Engineering .He gave a special mention for the documentary clip made by our students and also patronised the final year students for their astounding placement records in the academic year 2021-2022.

MOVIE

TIMING	DESCRIPTION
9.15-9.25	AKASHRAGAV K , PRADEEP M & MOHAMED SHEIK SAMEER K H were teamed together , made a movie about the conference and about BME department.

WELCOME ADDRESS

TIMING	IMAGE	DESCRIPTION
9.35-.9.40		Welcome address was given by Mrs. T. S. Udhaya Suriya. She welcomed the gathering and gave the over view about the program.

ABOUT THE CONFERENCE

TIMING	IMAGE	DESCRIPTION
9.40-9.45		Mr. K. Akashragav , from final year explained the importance of conference.

DEPARTMENT OF BIOMEDICAL ENGINEERING

ADHIYAMAAN COLLEGE OF ENGINEERING

(AUTONOMOUS)

Dr . M. G. R. Nagar, Hosur-635130

LIGHTING THE LAMP

TIMING	IMAGE	DESCRIPTION
9.45-9.50		All the dignitaries were requested to commence the program by lighting the lamp.

HONORING

TIMING	IMAGE	DESCRIPTION
9.50-10.00	 	Principal G.RANGANATH honoured both the chief guests, principal was honoured by HOD Mrs.T.S. Udhaya Suriya and all the faculties were honoured by the principal.

DEPARTMENT OF BIOMEDICAL ENGINEERING

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(AUTONOMOUS)

Dr . M. G. R. Nagar, Hosur-635130

PRESIDENTIAL ADDRESS

TIMING	IMAGE	DESCRIPTION
10.00-10.10		He spoke about the importance of Bio Medical Engineers and motivated the students to achieve great in their career

JOURNAL RELEASING

TIMING	IMAGE	DESCRIPTION
10.10-10.15		Journal proceedings containing the papers of students was released in the conference that is to be published in the journal (IJSRST). The papers are based on Bio Medical projects. Students were given the opportunity to present their IEEE papers.

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Dr . M. G. R. Nagar, Hosur-635130

INTRODUCING CHIEF GUEST

TIMING	IMAGE	DESCRIPTION
10.15-10.20		Ms.V.Aswathy from final year gave a brief introduction about the chief guest

PRESENTATION BY CHIEF GUEST

TIMING	IMAGE	DESCRIPTION
10.20-11.00	 	Mr.A.Lakshmi Narayanan and the chief guest spoke about the growth of Biomedical Engineering during and after the COVID pandemic. Mr. Hariraman Jeyaprakash shared his knowledge about Bio Medical devices and its emerging trends.

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HONORING TOPPERS & PRIZE DISTRIBUTION

TIMING	IMAGE	DESCRIPTION
11.00-11.15		The toppers of the previous academic year were honoured by the guest of honour and Principal

VOTE OF THANKS

TIMING	IMAGE	DESCRIPTION
11.15-11.20		Mr. C. Sathish Kumar, coordinator of NCETCBE 2K22, delivered the vote of thanks.

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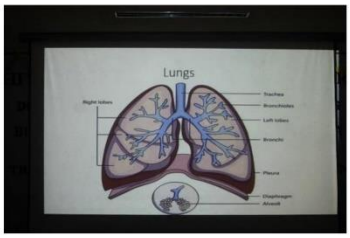
PAPER PRESENTATION

TIMING	IMAGE	DESCRIPTION
11.30-12.30		Students were given the opportunity to present their papers and were given suggestions regarding their presentation.

WINNERS LIST

SL no	NAME	PLACE	EVENT
01	G. SIVASOMNATH M. VIDHYA M. KAVIN	WINNERS	PAPER PRESENTATION
02	B. SHAKTHI PRIYA S. SANGEETHA	RUNNERS	PAPER PRESENTATION

DATE: 24.05.2022
VENUE:CIVIL SEMINAR HALL

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WELCOME ADDRESS

TIMING	IMAGE	DESCRIPTION
9.30-9.35		Ms.Soumya V from pre-final year addressed the gathering.

HONORING CHIEF GUEST

TIMING	IMAGE	DESCRIPTION
9.35-9.40		Dr.T.S.Udhaya Suriya honoured the chief guest with a memento and a shawl.

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CHIEF GUEST PROFILE

TIMING	IMAGE	DESCRIPTION
9.40-.9.45		Mr. K.Akashragav from final year introduced the chief guest to the gathering

CHIEF GUEST PRESENTATION

TIMING	IMAGE	DESCRIPTION
9.45-10.15		Dr.B.Balasubramanian, the chief guest spoke about the evolution of Biomedical Engineering and the future trends.

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